



**Department of Energy**  
Richland Operations Office  
P.O. Box 550  
Richland, Washington 99352

**0074129**

**OCT 12 2007**

07-SED-0390

Ms. Greta P. Davis  
Nuclear Waste Program  
State of Washington  
Department of Ecology  
3100 Port of Benton Blvd.  
Richland, Washington 99354

Dear Ms. Davis:


**TRANSMITTAL OF THE 224-T TRANSURANIC WASTE STORAGE AND ASSAY FACILITY PART A FORM, CLOSURE PLAN, AND STATE ENVIRONMENTAL POLICY ACT CHECKLIST (TSD: S-2-2)**

This letter transmits the 224-T Transuranic Waste Storage and Assay Facility Part A Form, Revision 7, Closure Plan, and State Environmental Policy Act Checklist to support incorporation of the 224-T Transuranic Waste Storage and Assay Facility into the Hanford Facility Resource Conservation and Recovery Act Permit, Part V.

A draft of the Part A Form was provided to the State of Washington, Department of Ecology staff electronically for review and comment. Comments received were addressed and incorporated. The Closure Plan completed public involvement in Calendar Year 2004 with the Engineering Evaluation/Cost Analysis for the 224-T Plutonium Concentration Facility (refer to the Administrative Record Accession #D3683669). The U.S. Department of Energy, Richland Operations Office is requesting approval of the Part A Form, Revision 7.

If you have any questions, please contact me, or your staff may contact Rob G. Hastings, Acting Assistant Manager for Safety and Engineering, on (509) 376-9824.

Sincerely,

  
David A. Brockman  
Manager

SED:ACM

Enclosures

cc: See page 2

**RECEIVED**  
OCT 14 2007

**EDMC**

Ms. Greta P. Davis  
07-SED-0390

-2-


OCT 12 2007

cc w/o encl:

F. W. Bond, Ecology  
J. A. Hedges, Ecology  
J. L. Nuzum, FHI

cc w/encl:

*4-0-1*  
Administrative Record, HF RCRA Permit, TSD: S-2-2 H6-08  
Environmental Portal, LMSI  
Ecology NWP Library  
HF Operating Record (S. A. Thompson, FHI)

 <b>WASHINGTON STATE DEPARTMENT OF ECOLOGY</b>		<b>Dangerous Waste Permit Application Part A Form</b>	
Date Received		Reviewed by:	Date:
Month	Day	Year	
		Approved by:	Date:
<b>I. This form is submitted to: (place an "X" in the appropriate box)</b>			
<input checked="checked" type="checkbox"/>	Request modification to a final status permit (commonly called a "Part B" permit)		
<input type="checkbox"/>	Request a change under interim status		
<input type="checkbox"/>	Apply for a final status permit. This includes the application for the initial final status permit for a site or for a permit renewal (i.e., a new permit to replace an expiring permit).		
<input type="checkbox"/>	Establish interim status because of the wastes newly regulated on:	(Date)	
List waste codes:			
<b>II. EPA/State ID Number</b>			
W	A	7 8 9 0 0 0 8 9 6 7	
<b>III. Name of Facility</b>			
US Department of Energy - Hanford Facility			
<b>IV. Facility Location (Physical address not P.O. Box or Route Number)</b>			
<b>A. Street</b>			
825 Jadwin			
City or Town		State	ZIP Code
Richland		WA	99352
County Code (if known)	County Name		
0 0 5	Benton		
<b>B. Land Type</b>	<b>C. Geographic Location</b>		<b>D. Facility Existence Date</b>
	Latitude (degrees, mins, secs)	Longitude (degrees, mins, secs)	Month Day Year
F	S E E T O P O	M A P	0 3 2 2 1 9 4 3
<b>V. Facility Mailing Address</b>			
<b>Street or P.O. Box</b>			
P.O. Box 550			
City or Town		State	ZIP Code
Richland		WA	99352

<b>VI. Facility contact (Person to be contacted regarding waste activities at facility)</b>												
<b>Name (last)</b>						<b>(first)</b>						
Brockman						David						
<b>Job Title</b>						<b>Phone Number (area code and number)</b>						
Manager						(509) 376-6880						
<b>Contact Address</b>												
<b>Street or P.O. Box</b>												
P.O. Box 550												
<b>City or Town</b>						<b>State</b>		<b>ZIP Code</b>				
Richland						WA		99352				
<b>VII. Facility Operator Information</b>												
<b>A. Name</b>						<b>Phone Number (area code and number)</b>						
Department of Energy Owner/Operator						(509) 376-6880						
Fluor Hanford Co-Operator for 224-T TRUSAF*						(509) 376-3576 *						
<b>Street or P.O. Box</b>												
P.O. Box 550												
P.O. Box 1000 *												
<b>City or Town</b>						<b>State</b>		<b>ZIP Code</b>				
Richland						WA		99352				
<b>B. Operator Type</b>		F										
<b>C. Does the name in VII.A reflect a proposed change in operator?</b>						<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, provide the scheduled date for the change:						
						Month		Day		Year		
<b>D. Is the name listed in VII.A. also the owner? If yes, skip to Section VIII.C.</b>						<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
<b>VIII. Facility Owner Information</b>												
<b>A. Name</b>						<b>Phone Number (area code and number)</b>						
David A. Brockman, Operator/Facility-Property Owner						(509) 376-6880						
<b>Street or P.O. Box</b>												
P.O. Box 550												
<b>City or Town</b>						<b>State</b>		<b>ZIP Code</b>				
Richland						WA		99352				
<b>B. Operator Type</b>		F										
<b>C. Does the name in VII.A reflect a proposed change in operator?</b>						<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, provide the scheduled date for the change:						
						Month		Day		Year		
<b>IX. NAICS Codes (5/6 digit codes)</b>												
<b>A. First</b>						<b>B. Second</b>						
5	6	2	2	1		9	2	4	1	1	0	Administration of Air & Water Resource & Solid Waste Management Programs
<b>C. Third</b>						<b>D. Fourth</b>						
5	4	1	7	1	0	9	9	9	9	9	9	Research & Development in the Physical, Engineering, & Life Sciences
												Unclassified Establishments

[illegible]

The 224-T Transuranic Waste Storage and Assay Facility (224 -T TRUSAF) began waste management operations in September of 1985, and was a RCRA-compliant container storage unit located in the 224-T Building. The 224-T Building is located southeast of the T Plant Complex in the 200 West Area of the Hanford Facility. The 224-T Building consists of two sections. Approximately two-thirds of the building (primarily along the north-west side and the west end) was used for the storage of containerized mixed waste. The other section of the building (primarily along the south-east side) consists of six contaminated process cells containing equipment and process vessels that were flushed when operations were terminated.

The 224-T TRUSAF provided a centralized storage unit for storage of containerized mixed waste from various Hanford Facility operations and U.S. Department of Energy and U.S. Department of Defense facilities. All the mixed waste stored at the 224-T TRUSAF was transferred to an onsite treatment, storage, and/or disposal unit, and no additional mixed waste will be stored at 224-T TRUSAF. Closure of 224-T TRUSAF a TSD located within the 224-T Building, will occur in conjunction with the 224-T Building demolition.

The total process design capacity for storage at the 224-T TRUSAF is approximately 110,000 gallons (416,395 liters).

**EXAMPLE FOR COMPLETING ITEMS XII and XIII (shown in lines numbered X-1, X-2, and X-3 below):** A facility has two storage tanks that hold 1200 gallons and 400 gallons respectively. There is also treatment in tanks at 20 gallons/hr. Finally, a one-quarter acre area that is two meters deep will undergo *in situ vitrification*.

Section XII. Process Codes and Design Capacities							Section XIII. Other Process Codes									
Line Number		A. Process Codes (enter code)			B. Process Design Capacity		C. Process Total Number of Units	Line Number		A. Process Codes (enter code)			B. Process Design Capacity		C. Process Total Number of Units	D. Process Description
					1. Amount	2. Unit of Measure (enter code)							1. Amount	2. Unit of Measure (enter code)		
X	1	S	0	2	1,600	G	002	X	1	T	0	4	700	C	001	In situ vitrification
X	2	T	0	3	20	E	001									
X	3	T	0	4	700	C	001									
	1	S	0	1	416,395	L	001		1							
	2								2							
	3								3							
	4								4							
	5								5							
	6								6							
	7								7							
	8								8							
	9								9							
1	0							1	0							
1	1							1	1							
1	2							1	2							
1	3							1	3							
1	4							1	4							
1	5							1	5							
1	6							1	6							
1	7							1	7							
1	8							1	8							
1	9							1	9							
2	0							2	0							
2	1							2	1							
2	2							2	2							
2	3							2	3							
2	4							2	4							
2	5							2	5							

**XIV. Description of Dangerous Wastes**

**Example for completing this section:** A facility will receive three non-listed wastes, then store and treat them on-site. Two wastes are corrosive only, with the facility receiving and storing the wastes in containers. There will be about 200 pounds per year of each of these two wastes, which will be neutralized in a tank. The other waste is corrosive and ignitable and will be neutralized then blended into hazardous waste fuel. There will be about 100 pounds per year of that waste, which will be received in bulk and put into tanks.

Line Number			A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Processes										(2) Process Description [If a code is not entered in D (1)]
									(1) Process Codes (enter)										
X	1		D	0	0	2	400	P	S	0	1	T	0	1					
X	2		D	0	0	1	100	P	S	0	2	T	0	1					
X	3		D	0	0	2												Included with above	
1			D	0	0	1	227	K	S	0	1							Includes Debris	
2			D	0	0	2		K	S	0	1							Includes Debris	
3			D	0	0	3		K	S	0	1							Includes Debris	
4			D	0	0	4		K	S	0	1							Includes Debris	
5			D	0	0	5		K	S	0	1							Includes Debris	
6			D	0	0	6		K	S	0	1							Includes Debris	
7			D	0	0	7		K	S	0	1							Includes Debris	
8			D	0	0	8	454	K	S	0	1							Includes Debris	
9			D	0	0	9	227	K	S	0	1							Includes Debris	
10			D	0	1	0		K	S	0	1							Includes Debris	
11			D	0	1	1		K	S	0	1							Includes Debris	
12			D	0	1	2		K	S	0	1							Includes Debris	
13			D	0	1	3		K	S	0	1							Includes Debris	
14			D	0	1	4		K	S	0	1							Includes Debris	
15			D	0	1	5		K	S	0	1							Includes Debris	
16			D	0	1	6		K	S	0	1							Includes Debris	
17			D	0	1	7		K	S	0	1							Includes Debris	
18			D	0	1	8		K	S	0	1							Includes Debris	
19			D	0	1	9		K	S	0	1							Includes Debris	
20			D	0	2	0		K	S	0	1							Includes Debris	
21			D	0	2	1		K	S	0	1							Includes Debris	
22			D	0	2	2		K	S	0	1							Includes Debris	
23			D	0	2	3		K	S	0	1							Includes Debris	
24			D	0	2	4		K	S	0	1							Includes Debris	
25			D	0	2	5		K	S	0	1							Includes Debris	

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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## Continuation of Section XIV. Description of Dangerous Waste

Line Number	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Process										
							(1) Process Codes (enter)								(2) Process Description [If a code is not entered in D (1)]		
26	D	0	2	6		K	S	0	1								Includes Debris
27	D	0	2	7		K	S	0	1								Includes Debris
28	D	0	2	8		K	S	0	1								Includes Debris
29	D	0	2	9		K	S	0	1								Includes Debris
30	D	0	3	0		K	S	0	1								Includes Debris
31	D	0	3	1		K	S	0	1								Includes Debris
32	D	0	3	2		K	S	0	1								Includes Debris
33	D	0	3	3		K	S	0	1								Includes Debris
34	D	0	3	4		K	S	0	1								Includes Debris
35	D	0	3	5		K	S	0	1								Includes Debris
36	D	0	3	6		K	S	0	1								Includes Debris
37	D	0	3	7		K	S	0	1								Includes Debris
38	D	0	3	8		K	S	0	1								Includes Debris
39	D	0	3	9		K	S	0	1								Includes Debris
40	D	0	4	0		K	S	0	1								Includes Debris
41	D	0	4	1		K	S	0	1								Includes Debris
42	D	0	4	2		K	S	0	1								Includes Debris
43	D	0	4	3		K	S	0	1								Includes Debris
44	F	0	0	1		K	S	0	1								Includes Debris
45	F	0	0	2		K	S	0	1								Includes Debris
46	F	0	0	3		K	S	0	1								Includes Debris
47	F	0	0	4		K	S	0	1								Includes Debris
48	F	0	0	5		K	S	0	1								Includes Debris
49	F	0	2	0		K	S	0	1								Includes Debris
50	F	0	2	1		K	S	0	1								Includes Debris
51	F	0	2	2		K	S	0	1								Includes Debris
52	F	0	2	3		K	S	0	1								Includes Debris
53	F	0	2	6		K	S	0	1								Includes Debris
54	F	0	2	7		K	S	0	1								Includes Debris
55	F	0	2	8		K	S	0	1								Includes Debris
56	W	T	0	1	4,536	K	S	0	1								Includes Debris
57	W	T	0	2		K	S	0	1								Includes Debris
58	W	P	0	1	3,629	K	S	0	1								Includes Debris
59	W	P	0	2		K	S	0	1								Includes Debris



EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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## Continuation of Section XIV. Description of Dangerous Waste

Line Number	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Process										
							(1) Process Codes (enter)							(2) Process Description [If a code is not entered in D (1)]			
60	W	P	0	3		K	S	0	1								Includes Debris
61	W	P	C	B	227	K	S	0	1								Includes Debris
62	U	0	0	1		K	S	0	1								Includes Debris
63	U	0	0	2		K	S	0	1								Includes Debris
64	U	0	0	3		K	S	0	1								Includes Debris
65	U	0	0	4		K	S	0	1								Includes Debris
66	U	0	0	5		K	S	0	1								Includes Debris
67	U	0	0	6		K	S	0	1								Includes Debris
68	U	0	0	7		K	S	0	1								Includes Debris
69	U	0	0	8		K	S	0	1								Includes Debris
70	U	0	0	9		K	S	0	1								Includes Debris
71	U	0	1	0		K	S	0	1								Includes Debris
72	U	0	1	1		K	S	0	1								Includes Debris
73	U	0	1	2		K	S	0	1								Includes Debris
74	U	0	1	4		K	S	0	1								Includes Debris
75	U	0	1	5		K	S	0	1								Includes Debris
76	U	0	1	6		K	S	0	1								Includes Debris
77	U	0	1	7		K	S	0	1								Includes Debris
78	U	0	1	8		K	S	0	1								Includes Debris
79	U	0	1	9		K	S	0	1								Includes Debris
80	U	0	2	0		K	S	0	1								Includes Debris
81	U	0	2	1		K	S	0	1								Includes Debris
82	U	0	2	2		K	S	0	1								Includes Debris
83	U	0	2	3		K	S	0	1								Includes Debris
84	U	0	2	4		K	S	0	1								Includes Debris
85	U	0	2	5		K	S	0	1								Includes Debris
86	U	0	2	6		K	S	0	1								Includes Debris
87	U	0	2	7		K	S	0	1								Includes Debris
88	U	0	2	8		K	S	0	1								Includes Debris
89	U	0	2	9		K	S	0	1								Includes Debris
90	U	0	3	0		K	S	0	1								Includes Debris
91	U	0	3	1		K	S	0	1								Includes Debris
92	U	0	3	2		K	S	0	1								Includes Debris
93	U	0	3	3		K	S	0	1								Includes Debris

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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## Continuation of Section XIV. Description of Dangerous Waste

Line Number	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Process										
							(1) Process Codes (enter)								(2) Process Description [If a code is not entered in D (1)]		
94	U	0	3	4		K	S	0	1								Includes Debris
95	U	0	3	5		K	S	0	1								Includes Debris
96	U	0	3	6		K	S	0	1								Includes Debris
97	U	0	3	7		K	S	0	1								Includes Debris
98	U	0	3	8		K	S	0	1								Includes Debris
99	U	0	3	9		K	S	0	1								Includes Debris
100	U	0	4	1		K	S	0	1								Includes Debris
101	U	0	4	2		K	S	0	1								Includes Debris
102	U	0	4	3		K	S	0	1								Includes Debris
103	U	0	4	4		K	S	0	1								Includes Debris
104	U	0	4	5		K	S	0	1								Includes Debris
105	U	0	4	6		K	S	0	1								Includes Debris
106	U	0	4	7		K	S	0	1								Includes Debris
107	U	0	4	8		K	S	0	1								Includes Debris
108	U	0	4	9		K	S	0	1								Includes Debris
109	U	0	5	0		K	S	0	1								Includes Debris
110	U	0	5	1		K	S	0	1								Includes Debris
111	U	0	5	2		K	S	0	1								Includes Debris
112	U	0	5	3		K	S	0	1								Includes Debris
113	U	0	5	5		K	S	0	1								Includes Debris
114	U	0	5	6		K	S	0	1								Includes Debris
115	U	0	5	7		K	S	0	1								Includes Debris
116	U	0	5	8		K	S	0	1								Includes Debris
117	U	0	5	9		K	S	0	1								Includes Debris
118	U	0	6	0		K	S	0	1								Includes Debris
119	U	0	6	1		K	S	0	1								Includes Debris
120	U	0	6	2		K	S	0	1								Includes Debris
121	U	0	6	3		K	S	0	1								Includes Debris
122	U	0	6	4		K	S	0	1								Includes Debris
123	U	0	6	6		K	S	0	1								Includes Debris
124	U	0	6	7		K	S	0	1								Includes Debris
125	U	0	6	8		K	S	0	1								Includes Debris
126	U	0	6	9		K	S	0	1								Includes Debris
127	U	0	7	0		K	S	0	1								Includes Debris

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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## Continuation of Section XIV. Description of Dangerous Waste

Line Number	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Process										
							(1) Process Codes (enter)								(2) Process Description [If a code is not entered in D (1)]		
128	U	0	7	1		K	S	0	1								Includes Debris
129	U	0	7	2		K	S	0	1								Includes Debris
130	U	0	7	3		K	S	0	1								Includes Debris
131	U	0	7	4		K	S	0	1								Includes Debris
132	U	0	7	5		K	S	0	1								Includes Debris
133	U	0	7	6		K	S	0	1								Includes Debris
134	U	0	7	7		K	S	0	1								Includes Debris
135	U	0	7	8		K	S	0	1								Includes Debris
136	U	0	7	9		K	S	0	1								Includes Debris
137	U	0	8	0		K	S	0	1								Includes Debris
138	U	0	8	1		K	S	0	1								Includes Debris
139	U	0	8	2		K	S	0	1								Includes Debris
140	U	0	8	3		K	S	0	1								Includes Debris
141	U	0	8	4		K	S	0	1								Includes Debris
142	U	0	8	5		K	S	0	1								Includes Debris
143	U	0	8	6		K	S	0	1								Includes Debris
144	U	0	8	7		K	S	0	1								Includes Debris
145	U	0	8	8		K	S	0	1								Includes Debris
146	U	0	8	9		K	S	0	1								Includes Debris
147	U	0	9	0		K	S	0	1								Includes Debris
148	U	0	9	1		K	S	0	1								Includes Debris
149	U	0	9	2		K	S	0	1								Includes Debris
150	U	0	9	3		K	S	0	1								Includes Debris
151	U	0	9	4		K	S	0	1								Includes Debris
152	U	0	9	5		K	S	0	1								Includes Debris
153	U	0	9	6		K	S	0	1								Includes Debris
154	U	0	9	7		K	S	0	1								Includes Debris
155	U	0	9	8		K	S	0	1								Includes Debris
156	U	0	9	9		K	S	0	1								Includes Debris
157	U	1	0	1		K	S	0	1								Includes Debris
158	U	1	0	2		K	S	0	1								Includes Debris
159	U	1	0	3		K	S	0	1								Includes Debris
160	U	1	0	5		K	S	0	1								Includes Debris
161	U	1	0	6		K	S	0	1								Includes Debris

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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## Continuation of Section XIV. Description of Dangerous Waste

Line Number	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Process											(2) Process Description [If a code is not entered in D (1)]
							(1) Process Codes (enter)											
162	U	1	0	7		K	S	0	1								Includes Debris	
163	U	1	0	8		K	S	0	1								Includes Debris	
164	U	1	0	9		K	S	0	1								Includes Debris	
165	U	1	1	0		K	S	0	1								Includes Debris	
166	U	1	1	1		K	S	0	1								Includes Debris	
167	U	1	1	2		K	S	0	1								Includes Debris	
168	U	1	1	3		K	S	0	1								Includes Debris	
169	U	1	1	4		K	S	0	1								Includes Debris	
170	U	1	1	5		K	S	0	1								Includes Debris	
171	U	1	1	6		K	S	0	1								Includes Debris	
172	U	1	1	7		K	S	0	1								Includes Debris	
173	U	1	1	8		K	S	0	1								Includes Debris	
174	U	1	1	9		K	S	0	1								Includes Debris	
175	U	1	2	0		K	S	0	1								Includes Debris	
176	U	1	2	1		K	S	0	1								Includes Debris	
177	U	1	2	2		K	S	0	1								Includes Debris	
178	U	1	2	3		K	S	0	1								Includes Debris	
179	U	1	2	4		K	S	0	1								Includes Debris	
180	U	1	2	5		K	S	0	1								Includes Debris	
181	U	1	2	6		K	S	0	1								Includes Debris	
182	U	1	2	7		K	S	0	1								Includes Debris	
183	U	1	2	8		K	S	0	1								Includes Debris	
184	U	1	2	9		K	S	0	1								Includes Debris	
185	U	1	3	0		K	S	0	1								Includes Debris	
186	U	1	3	1		K	S	0	1								Includes Debris	
187	U	1	3	2		K	S	0	1								Includes Debris	
188	U	1	3	3		K	S	0	1								Includes Debris	
189	U	1	3	4		K	S	0	1								Includes Debris	
190	U	1	3	5		K	S	0	1								Includes Debris	
191	U	1	3	6		K	S	0	1								Includes Debris	
192	U	1	3	7		K	S	0	1								Includes Debris	
193	U	1	3	8		K	S	0	1								Includes Debris	
194	U	1	3	9		K	S	0	1								Includes Debris	
195	U	1	4	0		K	S	0	1								Includes Debris	

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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## Continuation of Section XIV. Description of Dangerous Waste

Line Number	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Process											(2) Process Description [If a code is not entered in D (1)]
							(1) Process Codes (enter)											
196	U	1	4	1		K	S	0	1								Includes Debris	
197	U	1	4	2		K	S	0	1								Includes Debris	
198	U	1	4	3		K	S	0	1								Includes Debris	
199	U	1	4	4		K	S	0	1								Includes Debris	
200	U	1	4	5		K	S	0	1								Includes Debris	
201	U	1	4	6		K	S	0	1								Includes Debris	
202	U	1	4	7		K	S	0	1								Includes Debris	
203	U	1	4	8		K	S	0	1								Includes Debris	
204	U	1	4	9		K	S	0	1								Includes Debris	
205	U	1	5	0		K	S	0	1								Includes Debris	
206	U	1	5	1		K	S	0	1								Includes Debris	
207	U	1	5	2		K	S	0	1								Includes Debris	
208	U	1	5	3		K	S	0	1								Includes Debris	
209	U	1	5	4		K	S	0	1								Includes Debris	
210	U	1	5	5		K	S	0	1								Includes Debris	
211	U	1	5	6		K	S	0	1								Includes Debris	
212	U	1	5	7		K	S	0	1								Includes Debris	
213	U	1	5	8		K	S	0	1								Includes Debris	
214	U	1	5	9		K	S	0	1								Includes Debris	
215	U	1	6	0		K	S	0	1								Includes Debris	
216	U	1	6	1		K	S	0	1								Includes Debris	
217	U	1	6	2		K	S	0	1								Includes Debris	
218	U	1	6	3		K	S	0	1								Includes Debris	
219	U	1	6	4		K	S	0	1								Includes Debris	
220	U	1	6	5		K	S	0	1								Includes Debris	
221	U	1	6	6		K	S	0	1								Includes Debris	
222	U	1	6	7		K	S	0	1								Includes Debris	
223	U	1	6	8		K	S	0	1								Includes Debris	
224	U	1	6	9		K	S	0	1								Includes Debris	
225	U	1	7	0		K	S	0	1								Includes Debris	
226	U	1	7	1		K	S	0	1								Includes Debris	
227	U	1	7	2		K	S	0	1								Includes Debris	
228	U	1	7	3		K	S	0	1								Includes Debris	
229	U	1	7	4		K	S	0	1								Includes Debris	

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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## Continuation of Section XIV. Description of Dangerous Waste

Line Number	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Process											
							(1) Process Codes (enter)								(2) Process Description [If a code is not entered in D (1)]			
230	U	1	7	6		K	S	0	1								Includes Debris	
231	U	1	7	7		K	S	0	1								Includes Debris	
232	U	1	7	8		K	S	0	1								Includes Debris	
233	U	1	7	9		K	S	0	1								Includes Debris	
234	U	1	8	0		K	S	0	1								Includes Debris	
235	U	1	8	1		K	S	0	1								Includes Debris	
236	U	1	8	2		K	S	0	1								Includes Debris	
237	U	1	8	3		K	S	0	1								Includes Debris	
238	U	1	8	4		K	S	0	1								Includes Debris	
239	U	1	8	5		K	S	0	1								Includes Debris	
240	U	1	8	6		K	S	0	1								Includes Debris	
241	U	1	8	7		K	S	0	1								Includes Debris	
242	U	1	8	8		K	S	0	1								Includes Debris	
243	U	1	8	9		K	S	0	1								Includes Debris	
244	U	1	9	0		K	S	0	1								Includes Debris	
245	U	1	9	1		K	S	0	1								Includes Debris	
246	U	1	9	2		K	S	0	1								Includes Debris	
247	U	1	9	3		K	S	0	1								Includes Debris	
248	U	1	9	4		K	S	0	1								Includes Debris	
249	U	1	9	6		K	S	0	1								Includes Debris	
250	U	1	9	7		K	S	0	1								Includes Debris	
251	U	2	0	0		K	S	0	1								Includes Debris	
252	U	2	0	1		K	S	0	1								Includes Debris	
253	U	2	0	2		K	S	0	1								Includes Debris	
254	U	2	0	3		K	S	0	1								Includes Debris	
255	U	2	0	4		K	S	0	1								Includes Debris	
256	U	2	0	5		K	S	0	1								Includes Debris	
257	U	2	0	6		K	S	0	1								Includes Debris	
258	U	2	0	7		K	S	0	1								Includes Debris	
259	U	2	0	8		K	S	0	1								Includes Debris	
260	U	2	0	9		K	S	0	1								Includes Debris	
261	U	2	1	0		K	S	0	1								Includes Debris	
262	U	2	1	1		K	S	0	1								Includes Debris	
263	U	2	1	3		K	S	0	1								Includes Debris	

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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## Continuation of Section XIV. Description of Dangerous Waste

Line Number	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Process										(2) Process Description [If a code is not entered in D (1)]
							(1) Process Codes (enter)										
264	U	2	1	4		K	S	0	1								Includes Debris
265	U	2	1	5		K	S	0	1								Includes Debris
266	U	2	1	6		K	S	0	1								Includes Debris
267	U	2	1	7		K	S	0	1								Includes Debris
268	U	2	1	8		K	S	0	1								Includes Debris
269	U	2	1	9		K	S	0	1								Includes Debris
270	U	2	2	0		K	S	0	1								Includes Debris
271	U	2	2	1		K	S	0	1								Includes Debris
272	U	2	2	2		K	S	0	1								Includes Debris
273	U	2	2	3		K	S	0	1								Includes Debris
274	U	2	2	5		K	S	0	1								Includes Debris
275	U	2	2	6		K	S	0	1								Includes Debris
276	U	2	2	7		K	S	0	1								Includes Debris
277	U	2	2	8		K	S	0	1								Includes Debris
278	U	2	3	2		K	S	0	1								Includes Debris
279	U	2	3	3		K	S	0	1								Includes Debris
280	U	2	3	4		K	S	0	1								Includes Debris
281	U	2	3	5		K	S	0	1								Includes Debris
282	U	2	3	6		K	S	0	1								Includes Debris
283	U	2	3	7		K	S	0	1								Includes Debris
284	U	2	3	8		K	S	0	1								Includes Debris
285	U	2	3	9		K	S	0	1								Includes Debris
286	U	2	4	0		K	S	0	1								Includes Debris
287	U	2	4	3		K	S	0	1								Includes Debris
288	U	2	4	4		K	S	0	1								Includes Debris
289	U	2	4	5		K	S	0	1								Includes Debris
290	U	2	4	6		K	S	0	1								Includes Debris
291	U	2	4	7		K	S	0	1								Includes Debris
292	U	2	4	8		K	S	0	1								Includes Debris
293	U	2	4	9		K	S	0	1								Includes Debris
294	U	3	2	8		K	S	0	1								Includes Debris
295	U	3	5	3		K	S	0	1								Includes Debris
296	U	3	5	9		K	S	0	1								Includes Debris
297	P	0	0	1		K	S	0	1								Includes Debris

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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## Continuation of Section XIV. Description of Dangerous Waste

Line Number	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Process										
							(1) Process Codes (enter)								(2) Process Description [If a code is not entered in D (1)]		
298	P	0	0	2		K	S	0	1								Includes Debris
299	P	0	0	3		K	S	0	1								Includes Debris
300	P	0	0	4		K	S	0	1								Includes Debris
301	P	0	0	5		K	S	0	1								Includes Debris
302	P	0	0	6		K	S	0	1								Includes Debris
303	P	0	0	7		K	S	0	1								Includes Debris
304	P	0	0	8		K	S	0	1								Includes Debris
305	P	0	0	9		K	S	0	1								Includes Debris
306	P	0	1	0		K	S	0	1								Includes Debris
307	P	0	1	1		K	S	0	1								Includes Debris
308	P	0	1	2		K	S	0	1								Includes Debris
309	P	0	1	3		K	S	0	1								Includes Debris
310	P	0	1	4		K	S	0	1								Includes Debris
311	P	0	1	5		K	S	0	1								Includes Debris
312	P	0	1	6		K	S	0	1								Includes Debris
313	P	0	1	7		K	S	0	1								Includes Debris
314	P	0	1	8		K	S	0	1								Includes Debris
315	P	0	2	0		K	S	0	1								Includes Debris
316	P	0	2	1		K	S	0	1								Includes Debris
317	P	0	2	2		K	S	0	1								Includes Debris
318	P	0	2	3		K	S	0	1								Includes Debris
319	P	0	2	4		K	S	0	1								Includes Debris
320	P	0	2	6		K	S	0	1								Includes Debris
321	P	0	2	7		K	S	0	1								Includes Debris
322	P	0	2	8		K	S	0	1								Includes Debris
323	P	0	2	9		K	S	0	1								Includes Debris
324	P	0	3	0		K	S	0	1								Includes Debris
325	P	0	3	1		K	S	0	1								Includes Debris
326	P	0	3	3		K	S	0	1								Includes Debris
327	P	0	3	4		K	S	0	1								Includes Debris
328	P	0	3	6		K	S	0	1								Includes Debris
329	P	0	3	7		K	S	0	1								Includes Debris
330	P	0	3	8		K	S	0	1								Includes Debris
331	P	0	3	9		K	S	0	1								Includes Debris



EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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## Continuation of Section XIV. Description of Dangerous Waste

Line Number	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Process											(2) Process Description [If a code is not entered in D (1)]
							(1) Process Codes (enter)											
332	P	0	4	0		K	S	0	1								Includes Debris	
333	P	0	4	1		K	S	0	1								Includes Debris	
334	P	0	4	2		K	S	0	1								Includes Debris	
335	P	0	4	3		K	S	0	1								Includes Debris	
336	P	0	4	4		K	S	0	1								Includes Debris	
337	P	0	4	5		K	S	0	1								Includes Debris	
338	P	0	4	6		K	S	0	1								Includes Debris	
339	P	0	4	7		K	S	0	1								Includes Debris	
340	P	0	4	8		K	S	0	1								Includes Debris	
341	P	0	4	9		K	S	0	1								Includes Debris	
342	P	0	5	0		K	S	0	1								Includes Debris	
343	P	0	5	1		K	S	0	1								Includes Debris	
344	P	0	5	4		K	S	0	1								Includes Debris	
345	P	0	5	6		K	S	0	1								Includes Debris	
346	P	0	5	7		K	S	0	1								Includes Debris	
347	P	0	5	8		K	S	0	1								Includes Debris	
348	P	0	5	9		K	S	0	1								Includes Debris	
349	P	0	6	0		K	S	0	1								Includes Debris	
350	P	0	6	2		K	S	0	1								Includes Debris	
351	P	0	6	3		K	S	0	1								Includes Debris	
352	P	0	6	4		K	S	0	1								Includes Debris	
353	P	0	6	5		K	S	0	1								Includes Debris	
354	P	0	6	6		K	S	0	1								Includes Debris	
355	P	0	6	7		K	S	0	1								Includes Debris	
356	P	0	6	8		K	S	0	1								Includes Debris	
357	P	0	6	9		K	S	0	1								Includes Debris	
358	P	0	7	0		K	S	0	1								Includes Debris	
359	P	0	7	1		K	S	0	1								Includes Debris	
360	P	0	7	2		K	S	0	1								Includes Debris	
361	P	0	7	3		K	S	0	1								Includes Debris	
362	P	0	7	4		K	S	0	1								Includes Debris	
363	P	0	7	5		K	S	0	1								Includes Debris	
364	P	0	7	6		K	S	0	1								Includes Debris	
365	P	0	7	7		K	S	0	1								Includes Debris	

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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## Continuation of Section XIV. Description of Dangerous Waste

Line Number	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Process											(2) Process Description [If a code is not entered in D (1)]
							(1) Process Codes (enter)											
366	P	0	7	8		K	S	0	1								Includes Debris	
367	P	0	8	1		K	S	0	1								Includes Debris	
368	P	0	8	2		K	S	0	1								Includes Debris	
369	P	0	8	4		K	S	0	1								Includes Debris	
370	P	0	8	5		K	S	0	1								Includes Debris	
371	P	0	8	7		K	S	0	1								Includes Debris	
372	P	0	8	8		K	S	0	1								Includes Debris	
373	P	0	8	9		K	S	0	1								Includes Debris	
374	P	0	9	2		K	S	0	1								Includes Debris	
375	P	0	9	3		K	S	0	1								Includes Debris	
376	P	0	9	4		K	S	0	1								Includes Debris	
377	P	0	9	5		K	S	0	1								Includes Debris	
378	P	0	9	6		K	S	0	1								Includes Debris	
379	P	0	9	7		K	S	0	1								Includes Debris	
380	P	0	9	8		K	S	0	1								Includes Debris	
381	P	0	9	9		K	S	0	1								Includes Debris	
382	P	1	0	1		K	S	0	1								Includes Debris	
383	P	1	0	2		K	S	0	1								Includes Debris	
384	P	1	0	3		K	S	0	1								Includes Debris	
385	P	1	0	4		K	S	0	1								Includes Debris	
386	P	1	0	5		K	S	0	1								Includes Debris	
387	P	1	0	6		K	S	0	1								Includes Debris	
388	P	1	0	8		K	S	0	1								Includes Debris	
389	P	1	0	9		K	S	0	1								Includes Debris	
390	P	1	1	0		K	S	0	1								Includes Debris	
391	P	1	1	1		K	S	0	1								Includes Debris	
392	P	1	1	2		K	S	0	1								Includes Debris	
393	P	1	1	3		K	S	0	1								Includes Debris	
394	P	1	1	4		K	S	0	1								Includes Debris	
395	P	1	1	5		K	S	0	1								Includes Debris	
396	P	1	1	6		K	S	0	1								Includes Debris	
397	P	1	1	7		K	S	0	1								Includes Debris	
398	P	1	1	8		K	S	0	1								Includes Debris	
399	P	1	1	9		K	S	0	1								Includes Debris	

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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## Continuation of Section XIV. Description of Dangerous Waste

Line Number	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Process										
							(1) Process Codes (enter)								(2) Process Description [If a code is not entered in D (1)]		
400	P	1	2	0		K	S	0	1								Includes Debris
401	P	1	2	1		K	S	0	1								Includes Debris
402	P	1	2	2		K	S	0	1								Includes Debris
403	P	1	2	3		K	S	0	1								Includes Debris
404																	
405																	
406																	
407																	
408																	
409																	
410																	
411																	
412																	
413																	
414																	
415																	
416																	
417																	
418																	
419																	
420																	
421																	
422																	
423																	
424																	
425																	
426																	
427																	
428																	
429																	
430																	
431																	
432																	

**XV. Map**

Attach to this application a topographic map of the area extending to at least one (1) mile beyond property boundaries. The map must show the outline of the facility; the location of each of its existing and proposed intake and discharge structures; each of its dangerous waste treatment, storage, recycling, or disposal units; and each well where fluids are injected underground. Include all springs, rivers, and other surface water bodies in this map area, plus drinking water wells listed in public records or otherwise known to the applicant within ¼ mile of the facility property boundary. The instructions provide additional information on meeting these requirements.

**XVI. Facility Drawing**


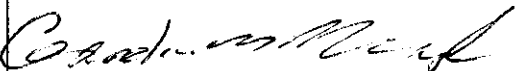

All existing facilities must include a scale drawing of the facility (refer to Instructions for more detail).

**XVII. Photographs**

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, recycling, and disposal areas; and sites of future storage, treatment, recycling, or disposal areas (refer to Instructions for more detail).

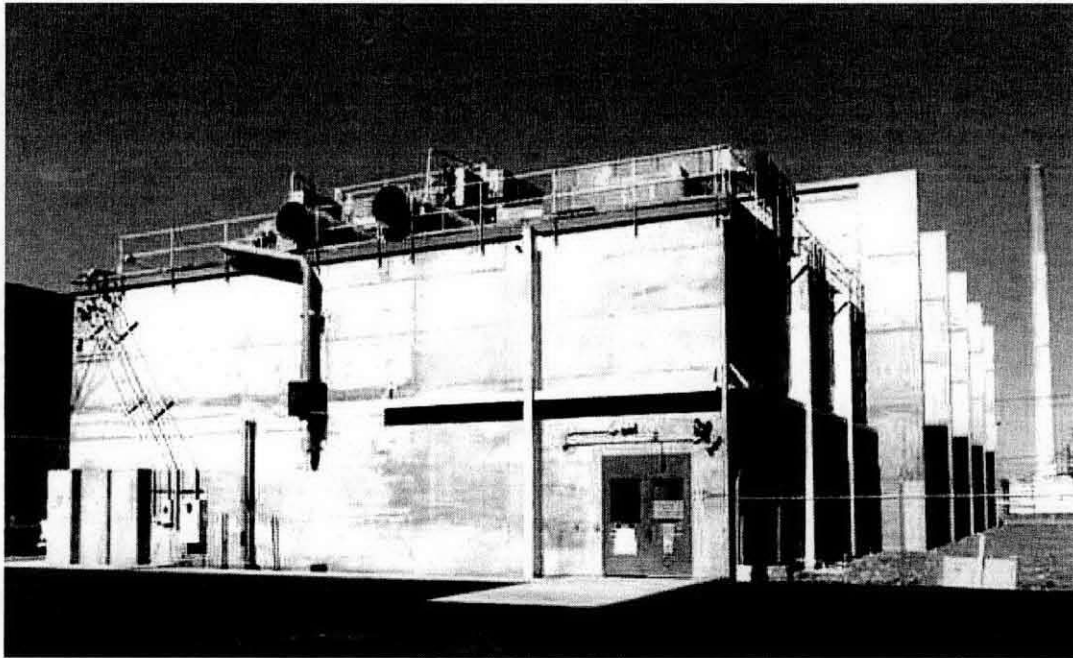
**XVIII. Certifications**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

<b>Operator</b> Name and Official Title (type or print) David A. Brockman, Manager U.S. Department of Energy Richland Operations Office	<b>Signature</b> 	<b>Date Signed</b> 10/12/07
<b>Co-Operator*</b> Name and Official Title (type or print) Cornelius M. Murphy President and Chief Executive Officer Fluor Hanford	<b>Signature</b> 	<b>Date Signed</b> 2/15/07
<b>Co-Operator* – Address and Telephone Number</b> 2420 Stevens Center P.O. Box 1000 Richland, WA 99352 (509) 376-3576		
<b>Facility-Property Owner</b> Name and Official Title (type or print) David A. Brockman, Manager U.S. Department of Energy Richland Operations Office	<b>Signature</b> 	<b>Date Signed</b> 10/12/07

**Comments**

## 224-T Transuranic Waste Storage and Assay Facility



224-T TRUSAF

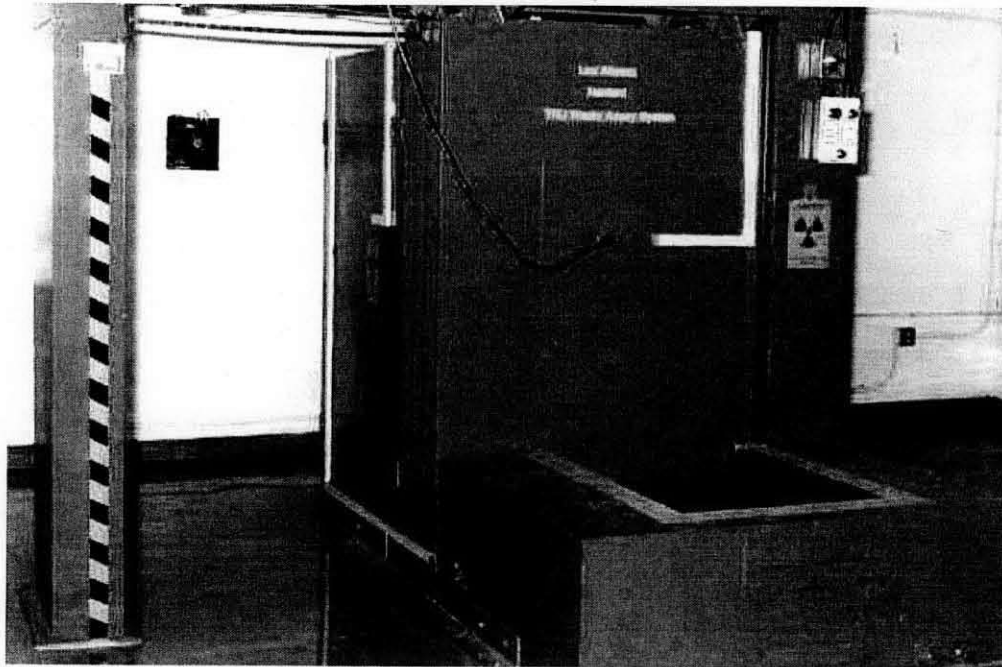
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PHOTO TAKEN 1995



224-T TRUSAF

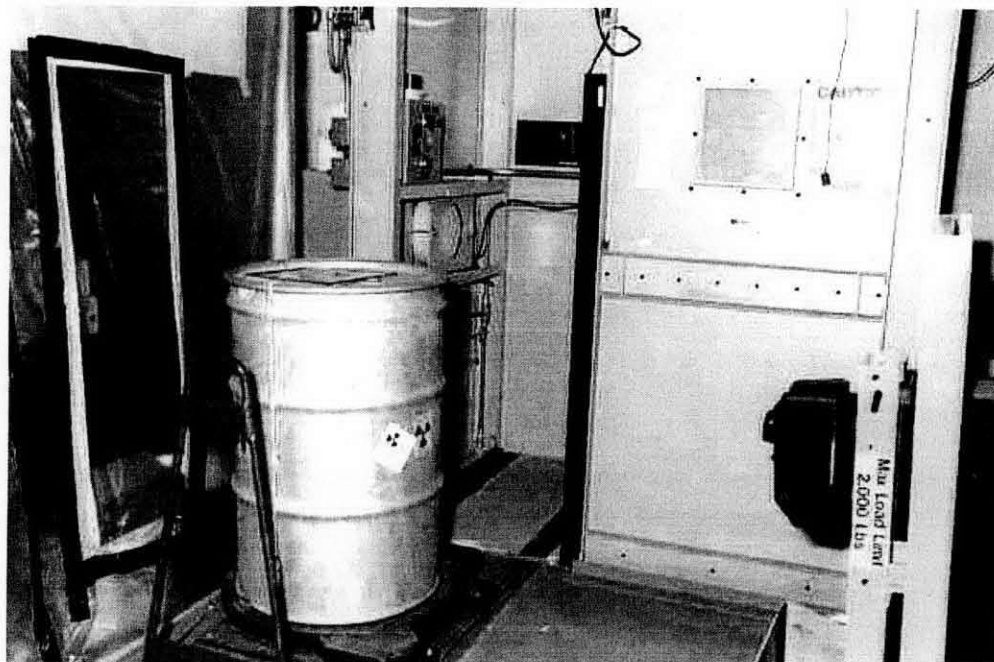
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PHOTO TAKEN 1995

## 224-T Transuranic Waste Storage and Assay Facility



Transuranic Waste Assayer

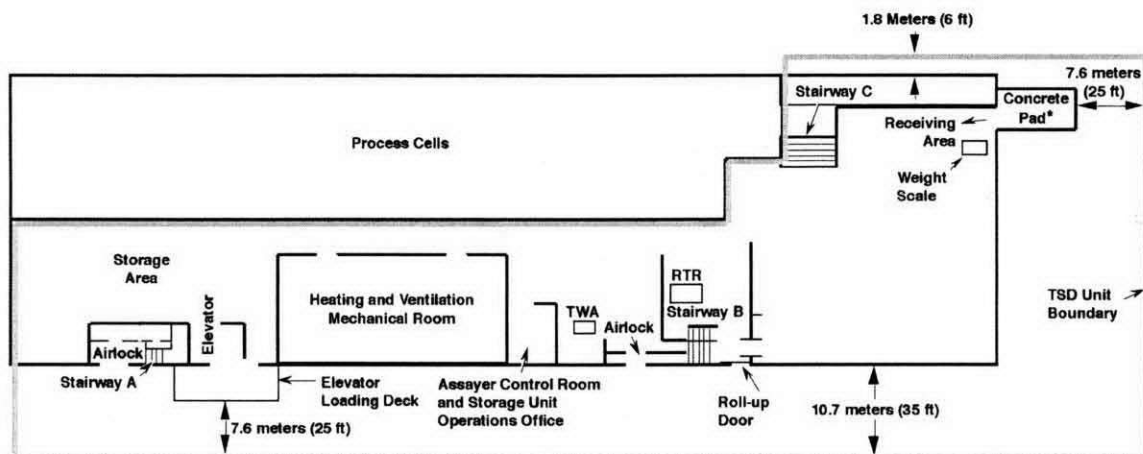
95030798-1CN  
PHOTO TAKEN 1995



Real-Time Radiography X-Ray System

95030798-4CN  
PHOTO TAKEN 1995

## 224-T Transuranic Waste Storage and Assay Facility



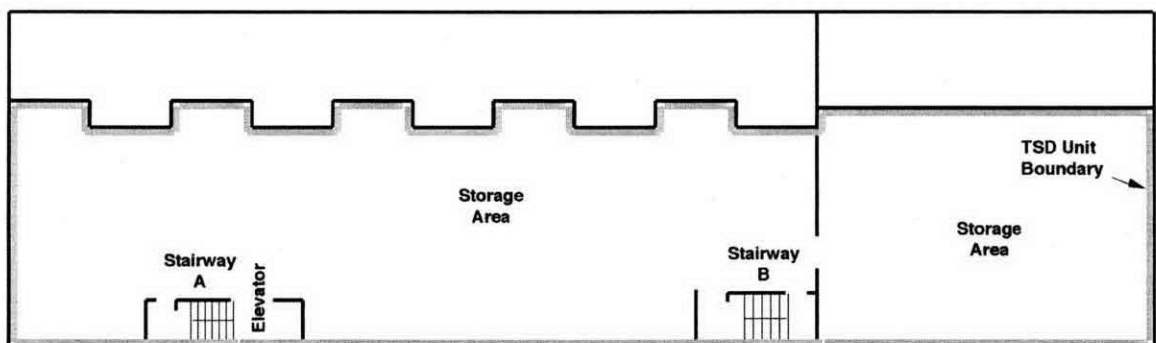
TWA = transuranic waste assayer.

H9504015.3

RTR = real-time radiography x-ray system.

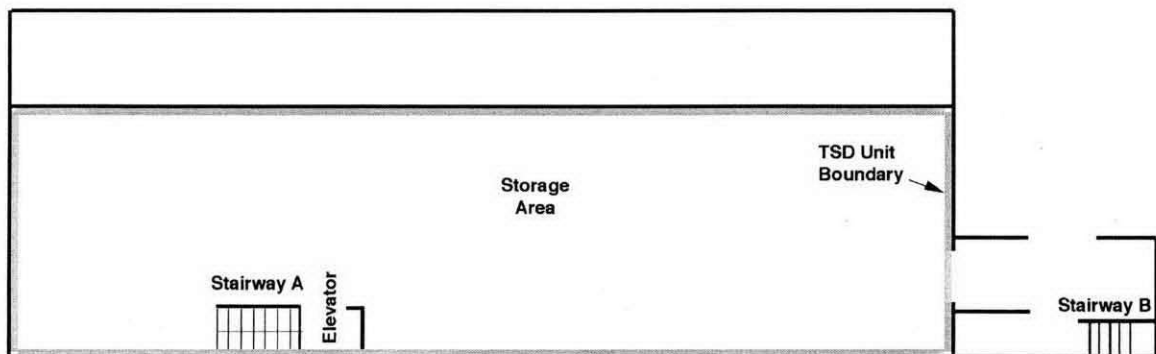
\* Primary loading and unloading pad.

### 1<sup>st</sup> Floor



H9504015.2

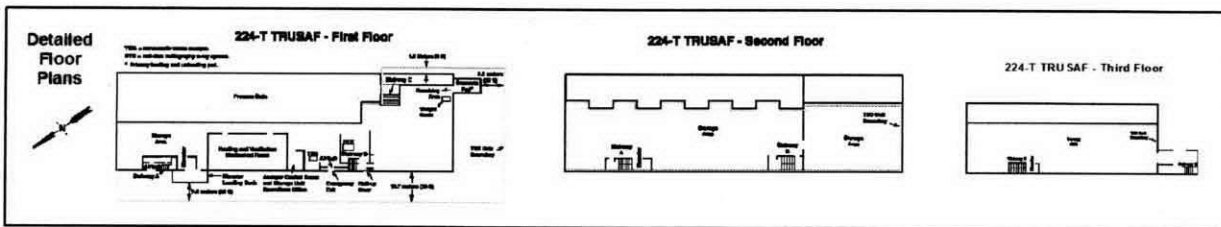
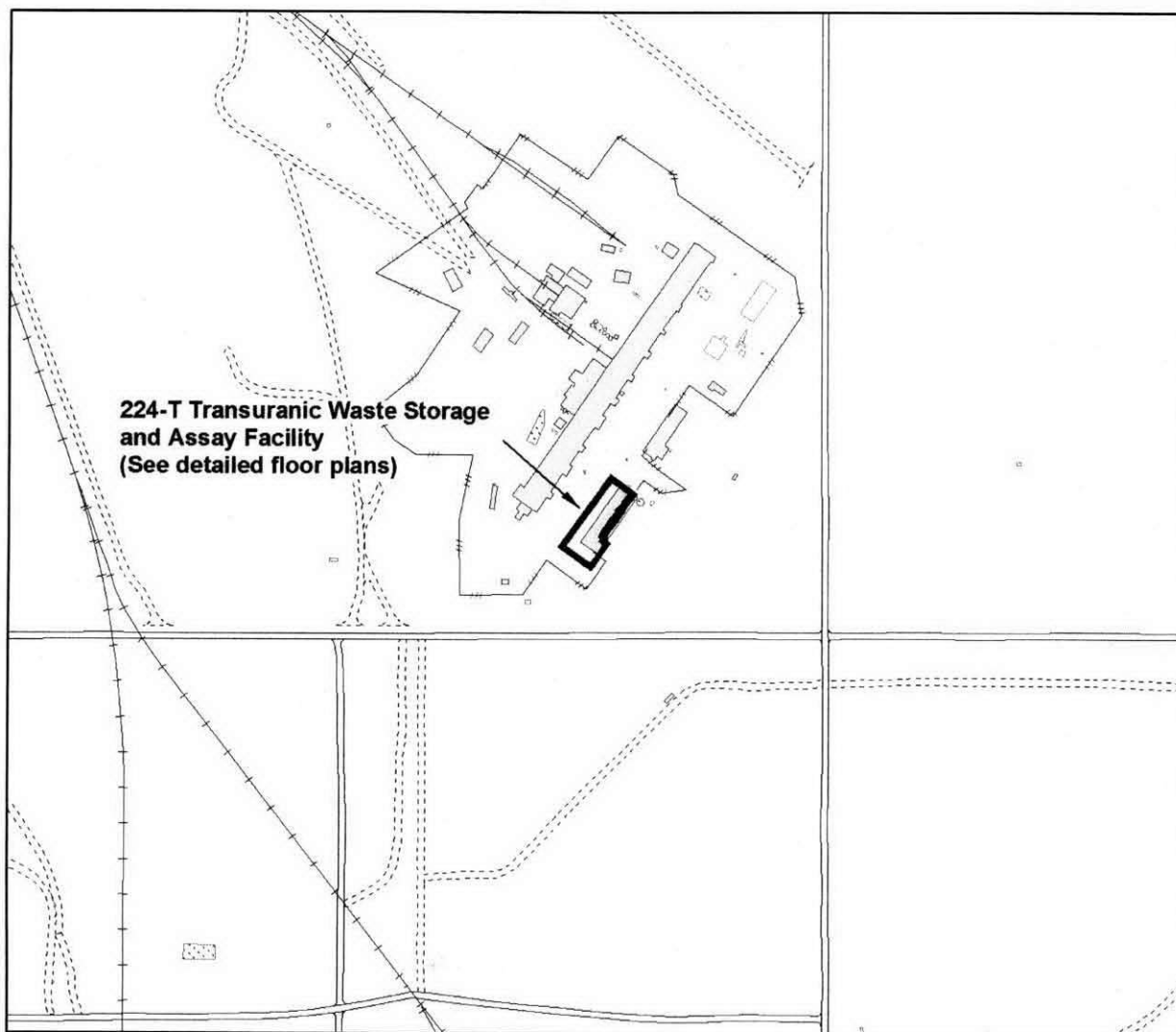
### 2<sup>nd</sup> Floor



H9504015.1

### 3<sup>rd</sup> Floor





## 224-T Transuranic Waste Storage and Assay Facility

Prepared for:  
US DEPARTMENT OF ENERGY  
RICHLAND OPERATIONS OFFICE



Created and Published by: Central Mapping Services  
Fluor Hanford, Richland, WA (509) 376-8759

INTENDED USE: REFERENCE ONLY

- TSD Unit Boundary
- DOE Operating Areas
- Hanford Facility
- Major Roads
- Service Roads

- Buildings and Mobiles
- Structures
- Concrete
- Railroads
- Fences

0 50 100 150 200 Meters

0 200 400 600 Feet

O:\Projects\RCRA\_TSD\050614\_2ndPriorityFacilityTopos2005\_Thompson\Maps\051011\_224TTRUSAF\_LineDwg\_85x11\_Rev1.mxd - 11/3/2005 @ 4:32:42 PM

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**STATE ENVIRONMENTAL POLICY ACT  
Environmental Checklist**

**224-T Transuranic Waste Storage and Assay Facility**

**Revision 0**

**September 2007**

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**A. BACKGROUND**

**A.1. Project Name**

This *State Environmental Policy Act* (SEPA) of 1971 Environmental Checklist is being submitted for the closure of the 224-T Transuranic Waste Storage and Assay Facility (224-T TRUSAF). The 224-T TRUSAF stored transuranic waste, transuranic mixed waste, mixed waste, and other properly characterized and packaged low-level waste. Dangerous wastes were removed from 224-T TRUSAF and the unit is no longer being operated as a TSD unit.

**A.2. Applicant Name**

U.S. Department of Energy, Richland Operations Office (DOE-RL)

**A.3. Applicant Address and Phone Number**

U.S. Department of Energy  
Richland Operations Office  
P.O. Box 550  
Richland, Washington 99352  
Contact:

David A. Brockman, Manager  
Richland Operations Office  
(509) 376-7395

**A.4. Date Checklist Prepared**

September 2007

**A.5. Agency Requesting Checklist**

Washington State Department of Ecology (Ecology)  
P.O. Box 47600  
Olympia, Washington 98504-7600

**A.6. Timing or Schedule**

This SEPA Environmental Checklist is submitted concurrently with the 224-T TRUSAF Part A Form, and RCRA 224-T TRUSAF Closure Plan.

**A.7. Future Proposals**

Yes. The 224-T Plutonium Concentration Facility remediation, which will include the 224-T TRUSAF TSD unit, will be conducted as a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) removal action. The response action will be conducted as described in the joint Department of Energy/U.S. Environmental Protection Agency (EPA) policy, Policy on Decommissioning Department of Energy Facilities under CERCLA, for decommissioning surplus DOE facilities consistent with the requirements of the CERCLA.

Closure activities will be integrated with the implementation of the Action Memorandum for the Non-Time Critical Removal Action for the 224-T Plutonium Concentration Facility (DOE-RL-2004-68), Revision 0 (Action Memo) based on the Engineering Evaluation/Cost Analysis (EE/CA) for 224-T Plutonium Concentration Facility (DOE/RL-2003-62) Revision 1. The Action memo establishes

that the 224-T facility will be decontaminated and decommissioned with the material being disposed of in ERDF.

#### **A.8. Environmental Information**

- DOE/EIS-0286F, *Final Hanford Site Solid (Radioactive and Hazardous) Waste Program Environmental Impact Statement, Richland, Washington* (December 2003).
- Closure activities will be integrated with the implementation of the Action memo for 224-T Plutonium Concentration Facility. The Action memo establishes that the 224-T facility be decontamination and decommissioned with the material being disposed of in ERDF.
- General information concerning the Hanford Facility environment can be found in the *Hanford Site National Environmental Policy Act (NEPA) Characterization*, PNNL-6415, Revision 17, September 2005. This document provides information concerning climate and meteorology, ecology, history and archeology, socioeconomic, land use and noise levels, and geology and hydrology. These baseline data for the Hanford Site and past activities are useful for evaluating proposed activities and their potential environmental impacts.

#### **A.9. Pending Approvals**

No other applications are pending.

#### **A.10. Permit Information**

Ecology is the lead regulatory agency authorized to approve the closure plan in the Hanford Facility RCRA Permit (Part V, Closure Unit 10, 224-T TRUSAF) - pursuant to the requirements of WAC 173-303.

No other permits are known to be required at this time.

#### **A.11. Project Description**

The 224-T Transuranic Waste Storage and Assay Facility (224-T TRUSAF) treatment, storage, and/or disposal unit is part of the 224-T Plutonium Concentration Facility. The 224-T Plutonium Concentration Facility is adjacent to T Plant in the 200 West Area. The 224-T TRUSAF stored transuranic waste, transuranic mixed waste, mixed waste, and other properly characterized and packaged low-level waste. Dangerous wastes were removed from 224-T TRUSAF and the unit is no longer being operated as a TSD unit.

A more detailed discussion of the waste types and known characteristics of the waste are provided in the Sections 3.0 and 4.0, respectively of the RCRA closure plan planned for incorporation into the Hanford Facility RCRA Permit, Part V, Closure Unit 10, 224-T TRUSAF.

The 224-T TRUSAF consisted of the following areas:

- Administration office
- Real Time Radiography room
- Transuranic waste assayer room
- Assay control room and storage unit operations office
- Elevator and stairways
- Heating and ventilation mechanical room
- Waste storage and holding areas
- Incoming waste receiving area

- Storage modules
  - Acids
  - Caustics
  - Mixed waste
  - Nonhazardous

The strategy for closure of the 224-T TRUSAF is clean closure. The waste inventory has been relocated to the Central Waste Complex or to another permitted TSD unit. Based on the clean nature of the 224-T TRUSAF and the proposed CERCLA removal action for the entire 224-T Plutonium Concentration Facility of decontamination and decommissioning with the material being disposed of in ERDF, sampling will not be performed. Certification of clean closure by an independent registered professional engineer will demonstrate that clean closure performance standards have been met.

Future land use determinations will be made following clean closure of the 224-T TRUSAF and disposition of the entire 224-T Plutonium Concentration Facility. The current proposal for the 224-T Plutonium Concentration Facility is a 'slab-on grade', which consists of the following primary elements:

- Remove the nonradiological and radiological hazardous substances from the facility
- Remove equipment and associated piping
- Decontaminate/stabilize contamination
- Demolish structure to grade
- Dispose of waste generated during these operations
- Stabilize the area

#### **A.12. Location**

The 224-T TRUSAF is located in the 200 West Area of the Hanford Facility, west of Dayton Avenue and south of 23<sup>rd</sup> Street. The 224-T TRUSAF is located in the SW ¼, NW ¼, Section 1, T12N, R25E. Less than 5 hectares have been allocated for the 224-T TRUSAF. A map is included in RCRA 224-T TRUSAF Part A Form.

### **B. ENVIRONMENTAL ELEMENTS**

#### **B.1. Earth**

##### **B.1.a. General site description**

Flat

##### **B.1.b. Percent slope**

The approximate slope of the land is less than 2 percent.

##### **B.1.c. Soil types**

Soil types consist mainly of eolian and fluvial sands and gravel. More detailed information concerning specific soil classifications can be found in PNNL-6415, Revision 17. Farming is not permitted on the Hanford Facility.

##### **B.1.d. Unstable soils**

No

**B.1.e. Purpose of fill, excavation, or grading**

Minimal excavation for slab-on-grade is anticipated. Excavated material will be stockpiled for use as backfill. This material also will be used, as required, for finish grading to blend with the existing flat topography.

**B.1.f. Erosion indicators**

No

**B.1.g. Impervious surfaces**

Does not apply

**B.1.h. Erosion control**

None

**B.2. Air**

**B.2.a. Air emission types**

Routine closure activities would generate dust. Vehicles used by personnel during 224-T TRUSAF closure would generate minor amounts of exhaust.

An airborne release could occur as a result of upset conditions internally or externally. Such a release would not exceed immediately dangerous to life and health concentrations outside the immediate area of the spill/release because of the small quantity of material that is available for release.

**B.2.b. Off-site sources of air emissions and odors**

No

**B.2.c. Measures to reduce or control air emissions**

Good engineering practices would be followed, and actions would comply with onsite procedures designed to protect the environment and personnel safety and health. Examples include application of water during closure activities for dust suppression.

**B.3. Water**

**B.3.a. Surface Water**

**B.3.a.1. Water body on or near the site**

The Columbia River is in the vicinity of the 224-T TRUSAF. However, the 224-T TRUSAF is not a land-based facility as defined in WAC 173-303-282(3)(h) and is over 7 kilometers from the Columbia River.

**B.3.a.2. Work in, on, or near the water**

224-T TRUSAF closure would not require any activity in or near the described waters and drainage.

**B.3.a.3. Water body fill or dredge**

There would be no dredging or filling from or to surface water or wetlands.



**B.3.a.4. Surface water withdrawals and diversions**

The water supply for the 200 West Area is pumped from the Columbia River. The 224-T TRUSAF activities would use relatively little of this overall withdrawal. The estimated amounts are small compared to normal daily water use in the 200 West Area.

**B.3.a.5. Floodplain**

The 224-T TRUSAF is not within the 100-year or 500-year floodplain (PNNL-6415, Revision 17).

**B.3.a.6. Discharge of waste**

No

**B.3.b. Ground Water**

**B.3.b.1. Ground water withdraws and discharges**

No groundwater would be withdrawn in support of this project, and water would not be discharged to the aquifer.

**B.3.b.2. Waste discharges to ground**

Does not apply

**B.3.c. Water runoff**

**B.3.c.1. Runoff source and flow**

The Hanford Facility receives only 15.2 to 17.8 centimeters of annual precipitation. Precipitation runs off the existing buildings, parking areas, and the waste storage pad and seeps into the soil near these areas. This precipitation does not reach the groundwater or surface waters.

**B.3.c.2. Waste or contamination of runoff**

Waste materials would not enter ground or surface waters. All waste materials would be contained.

**B.3.d. Mitigation of water impacts**

No surface, ground, or run-off water impacts are expected.

**B.4. Plants**

**B.4.a. Types of vegetation**

There is no vegetation on the 224-T TRUSAF site.

**B.4.b. Vegetation removal**

Does not apply

**B.4.c. Threatened and endangered species**

No threatened or endangered species are on the 224-T TRUSAF site. The Hanford Facility contains some federal and state listed threatened and endangered plant and animal species. Additional information on species can be found in PNNL-6415, Revision 17.

1 **B.4.d. Vegetation mitigation**

2 Does not apply

3 **B.5. Animals**

4 **B.5.a. Types of animals**

5 Birds: Raptors (burrowing owls, ferruginous, redtail, and Swainson's hawks), eagles, and songbirds

6 Mammals: Deer, elk, coyotes, and rabbits

7 Additional information on animals can be found in PNNL-6415, Revision 17.

8 **B.5.b. Threatened and endangered species**

9 The Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act protect the American bald  
10 eagle (the U. S. Department of the Interior took the American bald eagle off the Federal List of  
11 Endangered and Threatened Wildlife and Plants on June 28, 2007). The state listed white pelican,  
12 sandhill crane, and ferruginous hawk occur on or migrate through the Hanford Site.

13 **B.5.c. Animal migration routes**

14 The Hanford Site is a part of the broad Pacific Flyway.

15 **B.5.d. Wildlife mitigation**

16 This project contains no specific measures to preserve or enhance wildlife.

17 **B.6. Energy and Natural Resources**

18 **B.6.a. Types of energy**

19 Electricity will be used at 224-T TRUSAF during closure. Diesel fuel will be used for equipment during  
20 closure activities.

21 **B.6.b. Solar power interference**

22 No

23 **B.6.c. Mitigation**

24 Energy consumption is anticipated to be small, and energy conservation features readily are not  
25 applicable to 224-T TRUSAF.

26 **B.7. Environmental Health**

27 **B.7.a. Environmental health hazards**

28 Possible environmental health hazards to personnel could arise from activities at 224-T TRUSAF. The  
29 hazard could come from exposure to demolition waste. Stringent administrative controls and engineered  
30 barriers will be used to minimize the probability of even a minor incident and/or accident. A chemical  
31 spill, release, fire, or explosion could occur only as a result of a simultaneous breakdown in multiple  
32 barriers or a catastrophic natural forces event.

**B.7.b. Emergency services**

Hanford Site security, fire response, and ambulance services are on call at all times in the event of an onsite emergency. Hanford Site emergency services personnel are trained specially to manage a variety of circumstances involving chemical and/or mixed waste constituents and situations.

**B.7.b.1. Mitigation**

All personnel are trained to follow proper procedures during operations to minimize potential exposure. The 224-T TRUSAF has systems for radiation monitoring, fire protection, and alarm capability.

Chemical and radiological safety hazards would be mitigated by preventing direct contact with the residual chemical constituents; and protective clothing, appropriate training, and respiratory protection used by onsite personnel as necessary. As low as reasonably achievable (ALARA) principles are applied during construction and operations.

**B.7.c. Noise**

**B.7.c.1. Noise in the area**

While there is a minor amount of traffic, operation, and equipment noise in the vicinity, it is not expected to affect personnel at 224-T TRUSAF.

**B.7.c.2. Noise from the proposal**

Minor amounts of noise from traffic and equipment are expected during day shift hours for closure activities.

**B.7.c.3. Mitigation for noise**

In the unlikely event that Occupational Safety and Health Administration noise standards would be exceeded, appropriate measures to protect personnel would be employed.

**B.8. Land and Shoreline Use**

**B.8.a. Current uses**

The Hanford Facility is a single RCRA facility identified by the U.S. Environmental Protection Agency (EPA)/State Identification Number WA7890008967 that consists of over 70 TSD units conducting dangerous waste management activities. The Hanford Facility consists of all contiguous land and structures, other appurtenances, and improvements on the land, used for recycling, reusing, reclaiming, transferring, storing, treating, or disposing of dangerous waste, which, for the purposes of RCRA, are owned by the U.S. Government and operated by the DOE-RL (excluding lands north and east of the Columbia River, river islands, lands owned or used by the Bonneville Power Administration, lands leased to Energy Northwest, and lands owned by or leased to Washington State).

**B.8.b. Agriculture uses**

No portion of the 200 West Area has been used for agricultural purposes since 1943.

**B.8.c. Structures**

Existing structures at 224-T TRUSAF are described in the RCRA closure plan for 224-T TRUSAF.

**B.8.d. Demolition**

The current proposal for clean closure of the 224-T TRUSAF and disposition of the entire 224-T Plutonium Concentration Facility involves demolish structures to grade.

**B.8.e. Zoning**

The Hanford Site is currently included in Public Land's designation in the Benton County Comprehensive Plan (June 22, 1998) (Internet address: [http://www.co.benton.wa.us/comp\\_plan.htm](http://www.co.benton.wa.us/comp_plan.htm)). The Plan is being revised, and will address the Hanford Site as a separate geographic component, or 'Sub-Area' with its' own Land Use Plan (under development as Chapter 13 in the aforementioned Benton County Comprehensive Plan).

**B.8.f. Comprehensive plan designation**

The *Hanford Comprehensive Land-Use Plan Environmental Impact Statement Record of Decision* (64 FR 61615, November 12, 1999) stated that the Central Plateau (200 Areas) geographic area is designated Industrial-Exclusive.

**B.8.g. Shoreline master program designation**

Does not apply

**B.8.h. Environmentally sensitive area**

No

**B.8.i. Persons living or working onsite**

None

**B.8.j. People displaced by the proposal**

None

**B.8.k. Mitigation of displacement**

Does not apply

**B.8.l. Consistency with plans and land use designations**

Does not apply (refer to Section 8.f.)

**B.9. Housing**

**B.9.a. Number of units and income level rating**

None

**B.9.b. Residential units eliminated**

None

**B.9.c. Housing mitigation**

Does not apply

1    **B.10.    Aesthetics**

2    **B.10.a.   Building height and exteriors**

3    The 224-T TRUSAF structure has an eave height of approximately 6.1 meters and is constructed of metal  
4    and concrete.

5    **B.10.b.   Views**

6    The 224-T TRUSAF would be demolished, removing the structure from view.

7    **B.10.c.   Mitigation for aesthetics**

8    None

9    **B.11.    Light and Glare**

10   **B.11.a.   Types of light and glare**

11   None

12   **B.11.b.   Safety and views**

13   No

14   **B.11.c.   Off-site sources of light and glare**

15   None

16   **B.11.d.   Mitigation for light and glare**

17   None

18   **B.12.    Recreation**

19   **B.12.a.   Recreational opportunities**

20   None

21   **B.12.b.   Displaced recreational uses**

22   No

23   **B.12.c.   Recreational mitigation**

24   None

25   **B.13.    Historic and Cultural Preservation**

26   **B.13.a.   Historic register**

27   No places or objects listed on, or proposed for national, state, or local preservation registers are known to  
28   be at 224-T TRUSAF. Additional information concerning Hanford Site cultural resources can be found  
29   in PNNL-6415, Revision 17.

**B.13.b. Cultural site**

The DOE-RL has concluded that the T Plant, adjacent to the 224-T TRUSAF, is a contributing property within the Hanford Site Manhattan Project and Cold War Era Historic District recommended for individual documentation as stipulated in Appendix C, Table 1 of the Programmatic Agreement for Maintenance, Deactivation, Alteration, and Demolition of the Built Environmental on the Hanford Site, Washington (DOE/RL-96-77).

**B.13.c. Mitigation for historic or cultural resource**

All closure activities at 224-T TRUSAF are evaluated to ensure additional impacts are addressed.

**B.14. Transportation**

**B.14.a. Public streets and highways**

Does not apply

**B.14.b. Public transit**

The 224-T TRUSAF is not accessible to the public and is not served by public transit.

**B.14.c. Parking spaces**

None

**B.14.d. New roads and street improvements**

No

**B.14.e. Water, rail, air transportation**

No

**B.14.f. Trips per day**

None

**B.14.g. Transportation mitigation**

None

**B.15. Public Services**

**B.15.a. Public service demand**

No

**B.15.b. Mitigation**

Does not apply

1    **B.16.    Utilities**

2    **B.16.a.   Utilities**

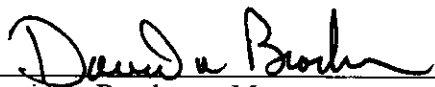
3    Electricity, potable water, refuse service, telephone, and a sanitary sewer system are available in the  
4    200 West Area.

5    **B.16.b.   Utility needs**

6    Existing utilities would be used to support 224-T TRUSAF closure activities.

1 **SIGNATURES**

- 2 The above answers are true and complete to the best of my knowledge. I understand that the lead agency  
3 is relying on them to make its decision.



Mr. David A. Brockman, Manager  
U.S. Department of Energy  
Richland Operations Office

10/12/07  
Date

4



**1 224-T Transuranic Waste Storage and Assay Facility Closure Plan**

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30			

May 2007

WA7890008967, Part V, Closure Unit 10  
224-T Transuranic Waste Storage and Assay Facility

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## 224-T Transuranic Waste Storage and Assay Facility Closure Plan

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### 1.0 FACILITY DESCRIPTION

The 224-T Transuranic Waste Storage and Assay Facility (224-T TRUSAF) treatment, storage, and/or disposal unit is part of the 224-T Plutonium Concentration Facility. The 224-T Plutonium Concentration Facility is adjacent to T Plant in the 200 West Area. The 224-T TRUSAF stored transuranic waste, transuranic mixed waste, mixed waste, and other properly characterized and packaged low-level waste. Dangerous wastes were removed from 224-T TRUSAF and the unit is no longer being operated as a TSD unit. Because dangerous waste does not include the source, special nuclear, and by-product material components of mixed waste, radionuclides are not within the scope of this documentation. The information on radionuclides is provided only for general knowledge.

The 224-T Plutonium Concentration Facility remediation, which will include the 224-T TRUSAF TSD unit, will be conducted as a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) removal action. The response action will be conducted as described in the joint Department of Energy/U.S. Environmental Protection Agency (EPA) policy, Policy on Decommissioning Department of Energy Facilities under CERCLA, for decommissioning surplus DOE facilities consistent with the requirements of the CERCLA.

### 1.1 FACILITY OPERATIONS

On receipt of the transuranic mixed waste or mixed waste, the 224-T TRUSAF operations personnel performed an inspection (exterior only) of the waste container(s) and associated documentation, a neutron assay of the waste container to determine fissile isotope content, and/or an examination with a real-time radiography (RTR) system to confirm the absence of prohibited items (e.g., free liquids). If the waste container(s) and accompanying documentation were acceptable, the 224-T TRUSAF operations personnel stored the waste.

The 224-T Plutonium Concentration Facility, constructed in the early 1940's entirely of reinforced concrete, was used as a chemical processing unit for purifying liquid plutonium nitrate by the lanthanum fluoride process. The 224-T Plutonium Concentration Facility remained idle for several years after new processes made the lanthanum fluoride process obsolete. In 1975, the mission of the 224-T Plutonium Concentration Facility changed to that of storing plutonium solutions and solid plutonium scrap. To meet the requirements for this new mission and the criteria for storing plutonium, the 224-T Plutonium Concentration Facility underwent major structural upgrades and modifications. The modifications included reinforcing the facility for tornado and seismic loads and sealing off the areas previously used for chemical separations from personnel entry. The three floors of the building contain six radiologically contaminated process cells, which were sealed from the rest of the building in 1975. The six process cells (cells A through F) are not included in this closure plan documentation. In 1985, the storage of transuranic waste, transuranic mixed waste, mixed waste, and low-level waste commenced, and the portion of the 224-T Plutonium Concentration Facility being operated was redesignated as the 224-T TRUSAF. This closure plan documentation covers only the RCRA regulated portion of the 224-T Plutonium Concentration Facility referred to as 224-T TRUSAF. The entire building will be remediated as a decontamination and decommissioning activity as part of a CERCLA removal action.

The configuration of 224-T TRUSAF, which is approximately 60 meters long by 18.3 meters wide, allowed for approximately 1,068 square meters of storage space.

The three floors of the 224-T TRUSAF are connected by stairway A at the north end of the building, by stairway B at the south end of the building, and by an elevator adjacent to stairway A. There also is a concrete elevator loading deck off the elevator on the outside of the building. The roof contains the

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ventilation exhaust equipment and a penthouse. The penthouse contains the elevator mechanical equipment.

The first floor contained storage modules, and includes a restroom, an administration office, a heating and ventilation mechanical room, an elevator, a transuranic waste assayer room, and a RTR. The storage modules on the first floor were in open areas and were marked with tape or paint on the floor. The second and third floors also contained open storage modules marked on the floor with tape or paint.

The floors of the 224-T TRUSAF were sealed with an epoxy sealant to meet secondary containment requirements. The fire protection system consisted of a dry-pipe fire system. Each floor had emergency exits and fire alarm pull boxes.

The 224-T TRUSAF consisted of the following areas:

- Administration office
- RTR room
- Transuranic waste assayer room
- Assay control room and storage unit operations office
- Elevator and stairways
- Heating and ventilation mechanical room
- Waste storage and holding areas
- Incoming waste receiving area
- Storage modules
  - Acids
  - Caustics
  - Mixed waste
  - Nonhazardous

#### **1.1.1 Real-Time Radiography Room**

Real-time radiography was operated from a desk and control terminal. Only one container at a time was staged in this area for x-raying. In the RTR room, a roll-up door was used for building services. The entrance had a 5.08-centimeter high curb with a 0.3-meter long ramp leading down to floor level. The room contains no floor drains. Three personnel entrances to the RTR room were available, all with a 5.08-centimeter curb and a 0.3-meter-long ramp.

#### **1.1.2 Transuranic Waste Assayer Room**

Only one container at a time was staged in the transuranic waste assayer room. The transuranic waste assayer room contains the first floor emergency exit. All floor drains in the transuranic waste assayer room are sealed.

#### **1.1.3 Assay Control Room and Storage Unit Operations Office**

The assay control room and storage unit operations office served as the operations center. The transuranic waste assayer was operated from this office. There are no floor drains in the assay control room and storage unit operations office.

#### **1.1.4 Elevator and Stairways**

The elevator and stairways are located on the west side of the storage building service all three floors of the 224-T TRUSAF. The elevator was used for transporting waste to the upper floors for storage, for moving large or heavy equipment, and for out loading waste. Main floor entrances to the elevator are equipped with a 5.08-centimeter curb and a 0.3-meter-long ramp down to floor level. The elevator is not equipped with curbs.

**1.1.5 Heating and Ventilation Mechanical Room**

The heating and ventilation equipment in the mechanical room, on the west-central side of the first floor, provided a constant negative pressure with respect to the atmosphere. The heating and ventilation system is currently deactivated. The two entrances from the hallway into the heating and ventilation mechanical room have 5.08-centimeter curbs with 15.24-centimeter-long ramps down to floor level.

**1.1.6 Waste Storage Modules**

Waste storage modules on all three floors were open-array storage modules, delineated by markings taped or painted on the floor to prevent inadvertent commingling of incompatible waste forms. Incompatible dangerous waste was separated by placement on different floors or in different rooms on the second floor. Transuranic mixed waste was stored based on both transuranic element content and dangerous waste constituents. All floor drains in these areas were sealed with nonshrinking concrete and covered with epoxy sealant.

**1.1.6.1 Receiving Area**

The receiving area was located in the southeast corner of the first floor. A double metal door was provided for entrance to the receiving area to allow the movement of a forklift. A concrete pad outside of the door was used for unloading waste. The ceiling is two floors high in the extreme southeast portion of the receiving area. A portion of the ceiling is only one floor high and contains a 1-ton crane used for container-over packing operations.

**1.1.6.2 Temporary Staging Area**

The temporary staging area, located at the southeast end, was used until offloading operations were complete.

**1.1.6.3 First Floor Storage Modules**

The first floor storage modules were used for short-term storage before examination and transfer of waste to other locations (i.e., upper floor storage, return to generators and/or generating units, Low-Level Burial Grounds), etc. All transuranic mixed waste was separated into compatible modules, two containers high, two containers wide, and as long as necessary to accommodate the amount of the waste.

**1.1.6.4 Second Floor Storage Modules**

The majority of the second floor was reserved for transuranic waste. Transuranic mixed waste also was stored on the second floor. Transuranic mixed waste containers were stored in open-array modules, two containers wide, and two containers high. Incompatible mixed waste was separated by being placed in different rooms on the second floor.

**1.1.6.5 Third Floor Storage Modules**

The third floor storage area contained two types of waste storage modules. Modules 3-1 were for transuranic mixed waste. Modules 3-2 were for transuranic waste. No incompatible transuranic mixed waste was stored on the third floor.

**1.2 SECURITY INFORMATION**

Security information for the Hanford Facility is discussed in Permit Attachment 33, §6.1 Security.

The 224-T TRUSAF is posted with signs stating *DANGER-UNAUTHORIZED PERSONNEL KEEP OUT* or an equivalent legend, in black and red letters on a white background. These signs are in English,

legible from a distance of 7.6 meters, and visible from all angles of approach. In addition to these signs, the fences around the 200 West Area are posted with signs, printed in English, warning against unauthorized entry. The signs also are visible from all angles of approach. The 224-T TRUSAF also has its own perimeter fencing that remains locked during nonroutine working hours. The perimeter fence has postings to keep unauthorized personnel out, in addition to an access control point trailer (MO-289) within the fenced area.

## **2.0 CLOSURE STRATEGY AND PERFORMANCE STANDARDS**

The 224-T TRUSAF was a clean and well-maintained TSD unit and will be clean closed. Therefore, post closure activities are not anticipated. Closure of the 224-T TRUSAF will be accomplished by integrating the closure activities with the proposed CERCLA removal action for the entire 224-T Plutonium Concentration Facility. Because the entire building will be disposed of in the Environmental Restoration Disposal Facility (ERDF), sampling activities will not be necessary.

### **2.1 MINIMIZE THE NEED FOR FURTHER MAINTENANCE**

Closure of the 224-T TRUSAF by the eventual disposal of the building decontamination and decommissioning materials in ERDF will minimize the need for further maintenance specific to the 224-T TRUSAF.

### **2.2 PROTECTION OF HUMAN HEALTH AND THE ENVIRONMENT**

The 224-T TRUSAF will be closed by the eventual disposal of the building into ERDF, which will provide protection for human health and the environment.

### **2.3 RETURN LAND TO THE APPEARANCE AND USE OF SURROUNDINGS**

Future land use determinations will be made following clean closure of the 224-T TRUSAF and disposition of the entire 224-T Plutonium Concentration Facility. The current proposal for the 224-T Plutonium Concentration Facility is a 'slab-on grade', which consists of the following primary elements:

- Remove the nonradiological and radiological hazardous substances from the facility
- Remove equipment and associated piping
- Decontaminate/stabilize contamination
- Demolish structure to grade
- Dispose of waste generated during these operations
- Stabilize the area

## **3.0 CLOSURE ACTIVITIES**

The strategy for closure of the 224-T TRUSAF is clean closure. The waste inventory has been relocated to the Central Waste Complex or to another permitted TSD unit. Based on the clean nature of the 224-T TRUSAF and the proposed CERCLA removal action for the entire 224-T Plutonium Concentration Facility of decontamination and decommissioning with the material being disposed of in ERDF, sampling will not be performed. Certification of clean closure by an independent registered professional engineer will demonstrate that clean closure performance standards have been met.

### **3.1 REMOVAL OF DANGEROUS WASTE INVENTORY**

The waste inventory has been removed and relocated to the CWC or to another permitted TSD unit.

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**3.2 CLOSURE ACTIVITIES**

Closure activities will be integrated with the implementation of the Engineering Evaluation/Cost Analysis (EE/CA) for 224-T Plutonium Concentration Facility. The EE/CA proposes that the 224-T facility be decontaminated and decommissioned with the material being disposed of in ERDF.

**3.2.1 Constituents of Concern for Closure**

Sampling for dangerous waste constituents is not anticipated at this time.

**3.2.2 Field Logbook**

All field activities will be recorded in a field logbook. All entries will be made in ink, signed, and dated.

**3.2.3 Reporting**

After completion of closure activities, certification will be produced to verify clean closure.

**3.2.4 Personnel Training**

All personnel involved with the closure activities at the 224-T TRUSAF will receive training concerning the handling of mixed waste.

**3.3 SCHEDULE OF CLOSURE**

The schedule of closure will be integrated with the 224-T Plutonium Concentration Facility CERCLA removal action.

**3.4 AMENDMENT OF PLAN**

Amendments to the closure plan, if required, will be prepared as described in WAC 173-303-610(3)(b).

**3.5 CERTIFICATION OF CLOSURE**

Certification of closure will be prepared as discussed in WAC 173-303-610(6).

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